IN THE CLAIMS:

Please amend claims as follows:

13. (Twice Amended) An arrangement for directly controlling the movement of a zoom system in a stereo microscope, comprising:

direct driving motors for at least one moving lens system wherein the driving motors are controlled by a control unit which reads calculated pre-stored values of reference points from a mathematical controlling curve for directing the movement of the at least one moving lens system by controlling the driving motors in a corresponding manner without necessitating use of mathematical generation of the mathematical controlling curve and without a monitoring system for the driving motors.

14. (Twice Amended) The arrangement according to claim 13 with two lens members which comprise the at least one moving lens system and are controlled independently from one another.

15. (Once Amended) The arrangement according to claim 13, wherein lens members which comprise the at least one moving lens system and are provided as lens pairs in a Greenough type stereo microscope or telescope type stereo microscope.

19. (Twice Amended) The arrangement according to claim 18, wherein the driving motors are arranged between lens pairs which comprise the at least one moving lens system.

20. (Once Amended) The arrangement according to claim 13, wherein a plurality of moving lens members which comprise the at least one moving lens system and are controlled jointly.

21. (Once Amended) The arrangement according to claim 13, wherein at least two lens members which comprise the at least one moving lens system are driven separately.

22. (Once Amended) The arrangement according to claim 13, wherein a linear magnification that is adjusted is determined and displayed during the controlling of the zoom system.

23. (Once Amended) The arrangement according to claim 13, wherein at least one control unit is used for motorized zoom adjustment and for motorized focusing of the microscope.